ASTYAK GHANAVATIAN

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EDUCATION

George Mason University, Volgenau School of Engineering *Fairfax, VA*
B.S. in Computer Science *May 2020 (expected)*
Cumulative GPA: 3.67

Relevant Coursework	Data Structures, Analysis of Algorithms, Low-level Programming, Object-oriented Programming, Software Engineering, Software Testing & Maintenance, Database Concepts, Data Mining.

ACADEMIC ACHIEVEMENTS

George Mason University Hackathon *October 2019*

- Won Second Prize in General Dynamics' Image Classification Challenge for applying and assessing performance of multiple pre-trained neural networks.

Dean's List *Spring/Fall 2019*

TECHNICAL SKILLS

Programming Languages	Java, C, Python, SQL.
Tools/Technologies	Unix, GDB, JUnit, MySQL, Java Database Connectivity (JDBC). Familiar with: Agile Methodology, Test-Driven Design Methodology.

PROJECTS

GMU Shell

- Wrote a custom shell program in C to emulate a Unix-like operating system.
- Has the ability to accept/execute commands from the user, as well as perform basic job management tasks that are normally handled by the operating system.

Video Analysis Web App

- Built a web application using Python and Flask to handle video analysis and post-processing of track & field videos from various meets.
- Operated within a team of students using Agile/Scrum methodology, where I implemented features such as video importing/playback, mark-up and importing athlete data for display.

X-Ray Image Classification

- Wrote a Python script, through pair programming, to classify a large data set consisting of chest x-ray images provided by the National Institute of Health.
- Implemented a Convolutional Neural Network via the Keras Functional API to handle both preprocessing and classifying of images.

Company Database GUI

- Wrote a GUI program in Java to allow users to manipulate an existing database.
- Established a connection to a MySQL database through the JDBC API and wrote SQL expressions to allow users to add, delete, or retrieve specified records.

WORK EXPERIENCE

Ourisman Toyota *Chantilly, VA*
Toyota & ASE Certified Automotive Technician *January 2013 – Present*

- Serviced, maintained, diagnosed and repaired vehicles based on clients concerns/requests.
- Communicated diagnostic results and recommended repairs effectively to supervisors and clients based on their concerns/requests.
- Operated within a team of technicians in order to efficiently manage and complete clients appointments.
- Road-tested vehicles, with or without clients, in order to properly address questions/concerns prior to, or upon completion of vehicle services and repairs.